

# PATENT ABSTRACTS OF JAPAN

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## (54) CONVERTER

### (57)Abstract:

PURPOSE: To obtain a converter which is capable of conversion from the successive scanning signal of an 8:4:4 (8 is a luminance signal and 4 is a color difference signal) system to the successive scanning signal of an 8:2:2 system without attenuating the vertical band of a color difference signal even if the conversion/ the inverse conversion between the successive scanning signals of the 8:4:4 system and the 8:2:2 system is repeated.

CONSTITUTION: An LPF 2 passes only the input terminal 1 of the successive scanning signal of an 8:4:4 system and the vertical low-pass component of the color difference signal in the successive scanning signal of the system. An HPF 3 passes only the vertical high-pass component of the color difference signal in the signal. A decision circuit 4 receives the output of the HPF 3 and decides the level of the high-pass component. A thinning circuit 6 thins the color difference signal in the inputted successive scanning signal of the 8:4:4 system and converts the color difference signal into the successive scanning signal of an 8:2:2 system. A switch circuit 5 connects the output of the LPF 2 and the thinning circuit 6 if the decision result of the decision circuit 4 is a prescribed level or more and connects the input terminal 1 and the thinning circuit 6 if the decision result of the decision circuit 4 is the prescribed level or below.

